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GLACIAL WATERS
IN THE
BLACK AND MOHAWK VALLEYS
H. L. FAIRCHILD
1909

LEGEND

MORAINES

Till and kame | Kame

GLACIAL STREAM CHANNELS

Channel with both banks preserved | Channel with one bank only, the other bank resting from the ice | Channel hypothetical, or with borderless borders

DELTAS OR SANDPLAINS

Herkimer lake | Frankfort lake | Schoharie lake | Port Leyden lake | Amsterdam lake | Iroquois lake

WAVE-WORK OF LAKE IROQUOIS

Bars and spits | Cliffs

INTERPRETATION
CONTACT MAPS, PLATES 19-27

This district, at the head of both the Black and Mohawk valleys, contains records of the Mohawk valley lobe and the Ontario lobe of the Laurentian ice sheet, the Iroquois. The northern edge of the ice tongue (see plate 3) had a trend northwest to southeast. The heavy moraines and the channels mark the positions of the ice front at the time of the Iroquois beach. Only the finer sediments and delta features were produced in connection with all the Iroquois waters.

The heavy hooked line denotes the south boundary of the Black river basin. In that basin the Iroquois waters discharged through the Sesenda outlet the Port Leyden delta with the Boonville or Lansing kill outlet.

The Kame-Moraine areas are only partially indicated.

Scale, 1:62500

1 0 1 2 3 4 5 Miles

Contour interval 20 feet.

Datum is mean sea level.

LEYDEN
LEWIS
BOONVILLE
FORESTPORT
WILMURT
REMSEN
TREMONTON
RUSSIA
TRENTON
FLOYD
ROME
MARCY
DEERFIELD
NEWPORT
WESTERN
VERONA
VIENNA
ONEIDA LAKE
WHITESTOWN
CAMDEN
PARIS
TABERG

West Leyden | Port Leyden | Boonville | Forestport | Remsen | Rome | Utica | Oneida Lake | Mohawk River | Black River | Erie Canal | New York Central R.R. | Delaware & Hudson R.R. | Rome, Watertown & Ogdensburg R.R. | Utica & Black River R.R. | Chenango Canal | Old Erie Canal

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BULLETIN 160 PLATE 3

GLACIAL WATERS IN THE BLACK VALLEY

H. L. FAIRCHILD

1909

LEGEND

DELTAS OR SANDPLAINS

Port Leyden lake — *Glenfield lake*

KETTLES IN SANDPLAINS

INTERPRETATION

COMPARE MAPS, PLATES 15-17

The steep slopes of the east side of the valley are the delta sands, eroded by present agencies. Only the more prominent of the Glenfield lake terraces are indicated.

The apparent terraces on the west wall of the valley are rock (limestone) benches, with little drift and slight lake deposits.

Scale 1/62500

1 ½ 0 1 2 3 4 Miles

1 ½ 0 1 2 3 4 5 Kilometers

Contour interval 20 feet.

Datum is mean sea level.

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BULLETIN 160 PLATE 4

GLACIAL WATERS IN THE BLACK AND ONTARIO VALLEYS

H. L. FAIRCHILD

1909

LEGEND

GLACIAL STREAM CHANNELS

- Channel with both banks preserved
- Channel with south bank only, the north bank having been the ice
- Channel hypothetical, or with indefinite borders

DELTAS

- Glenfield lake
- Iroquois lake
- Rodman (local) lake

WAVE-WORK OF LAKE IROQUOIS

- Bars and spits
- Cliffs

INTERPRETATION

COMPARE MAPS, PLATES 16-17

The channels in the town of Harrisburg carried the waters of the glacial lake in the Deer valley eastward into Glenfield lake. All the other channels carried the falling waters westward around into lake Iroquois. The Iroquois shoreline is undetermined in the valley of Black river.

Scale 62500

1 0 1 2 3 4 Miles

1 0 1 2 3 4 5 Kilometers

Contour interval 20 feet.

Datum is mean sea level.

GLACIAL WATERS IN THE MOHAWK VALLEY

H. L. FAIRCHILD
1909

LEGEND

GLACIAL STREAM CHANNELS

Channel with both banks preserved

Channel hypothetical, or with indefinite borders

DRUMLINS

INTERPRETATION

COMPARE MAPS, PLATES 11-13

These two channels were the outlets of the earliest glacial waters, the Adirondack waters and Herkimer lake.

The drumlins in this district, of which only a few are indicated, show westward flow of the later ice in the Mohawk valley.

The heavy broken line is the divide between Mohawk and Susquehanna drainage.

Scale 1/62500

1 0 1 2 3 4 Miles

1 1/2 0 1 2 3 4 5 Kilometers

Contour interval 20 feet.

Datum is mean sea level.

GLACIAL WATERS IN THE MOHAWK AND HUDSON VALLEYS

H. L. FAIRCHILD
1909

LEGEND

GLACIAL STREAM CHANNELS

- *Channel with both banks preserved*
- *Channel with one bank only, the other bank having been the ice*
- *Channel hypothetical, or with indefinite borders*

DELTAS OR LAKE PLAINS

- *Deposits in lake Albany*

INTERPRETATION

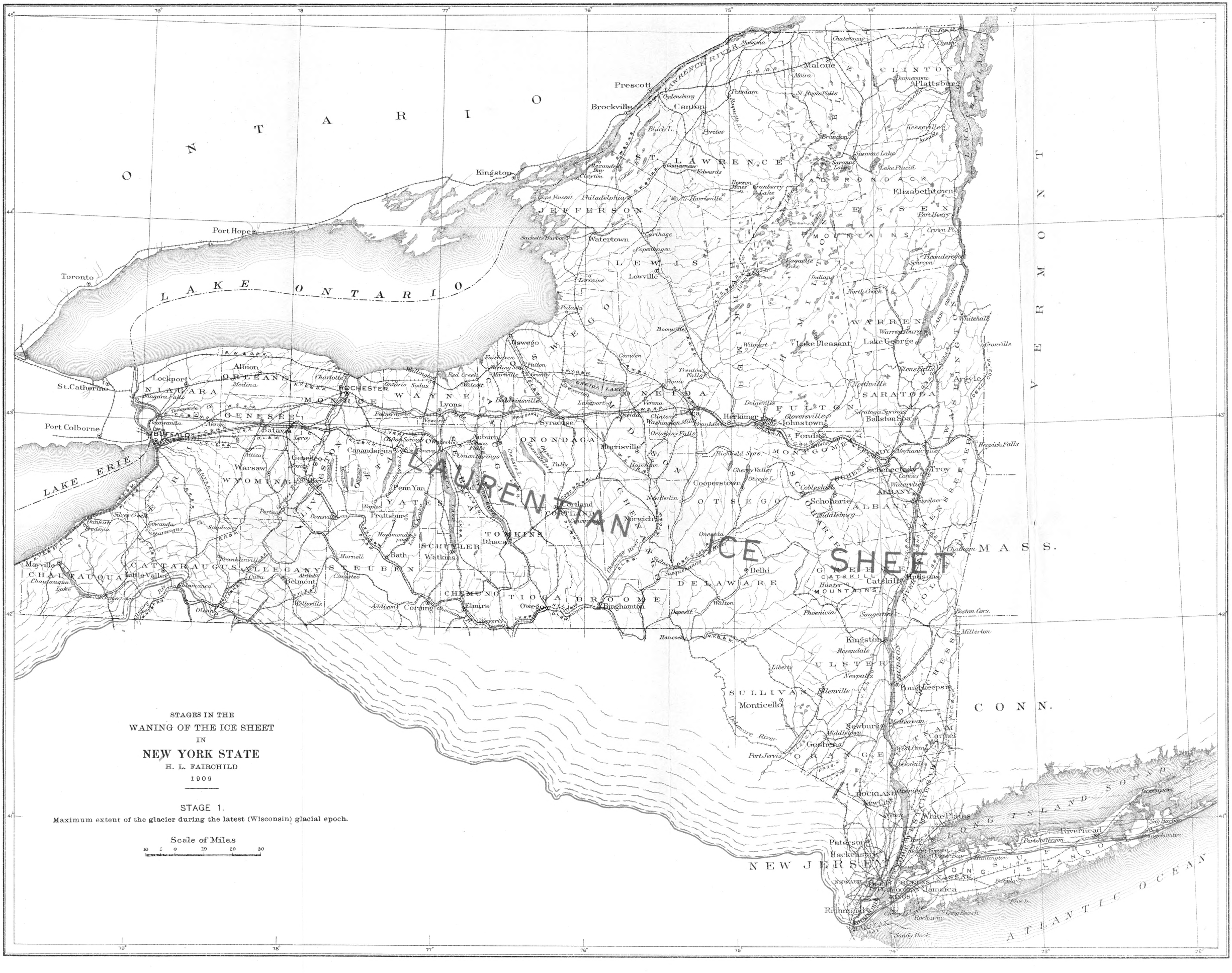
COMPARE MAPS, PLATES 14-17

The channels were cut by the later glacial outflow from the Mohawk basin; lake Scharie having outlet along the face of the Helderberg scarp, west of Albany; lake Amsterdam having its outlet on the Rotterdam saliear, west of Schenectady. The boundaries of lake Albany deposits are somewhat hypothetic. Many of the dune hills which were piled high above the lake plain are not distinguished from the lacustrine deposits. The lake plains continue north to Ballston and beyond. The heavy broken line is the divide between the Schoharie and Hudson valleys.

Scale 62500

1 0 1 2 3 4 Miles
1 0 1 2 3 4 5 Kilometers

Contour interval 20 feet.
Datum is mean sea level.


ONTARIO
LAKE ONTARIO
LAKE ERIE
ST. LAWRENCE RIVER
VERMONT
MASS.
CONN.
NEW JERSEY
ATLANTIC OCEAN
LAURENTIAN ICE SHEET
Prescott
Brockville
Kingston
Port Hope
Toronto
St. Catherine
Port Colborne
Malone
Plattsburg
Elizabethtown
Port Henry
Crown Pt.
Ticonderoga
Lake George
Lake Pleasant
Warrensburg
Whitehall
Granville
Glens Falls
Argyle
Saratoga Springs
Ballston Spa
Schuylerville
Johnstown
Gloversville
Fonda
Howick Falls
Mechanicville
Troy
Schenectady
Cohoes
Waterford
Albany
Rensselaer
Hudson
Catskill
Chatham
Boston Cors.
Millerton
Poughkeepsie
Fishkill
Peekskill
West Point
Cornwall
Newburgh
Middletown
Monticello
Port Jervis
Goshen
Kingston
Rosendale
Newpaltz
Lockport
Albion
Medina
Rochester
Batavia
Buffalo
Niagara Falls
Lyons
Newark
Palmyra
Syracuse
Auburn
Seneca Falls
Geneva
Canandaigua
Penn Yan
Warsaw
Geneseo
Attica
Dansville
Portage
Wellsville
Olean
Salamanca
Jamestown
Mayville
Chautauqua Lake
Little Valley
Cuba
Belmont
Hornell
Bath
Corning
Elmira
Ithaca
Watkins
Cortland
Prattsburg
Naples
Norwich
Oneonta
Cooperstown
Cherry Valley
Richfield Spgs.
Morrisville
Oriskany Falls
Utica
Rome
Oneida
Verona
Lakeport
Fulton
Oswego
Sterling
Mexico
Pulaski
Boonville
Lowville
Carthage
Watertown
Sackets Harbor
Cape Vincent
Philadelphia
Alexandria Bay
Clayton
Gouverneur
Edwards
Indian R.
Black R.
Raquette Lake
Indian Lake
North Creek
Wilmurt
Lake Pleasant
Saranac Lakes
Lake Placid
Keeseville
Ausable
Brandon
Dannemora
Saranac R.
Chateaugay
Malone
Massena
Potsdam
St. Regis Falls
Moira
Byrnes
Black L.
Canton
Ogdensburg
Delhi
Middlebury
Schoharie
Hudson
Catskill
Phoenicia
Sangerfield
Deposit
Walton
Hancock
Liberty
Monticello
Port Jervis
Goshen
Middletown
Newburgh
Montgomery
Orange
Rockland
Putnam
Dutchess
Ulster
Sullivan
Delaware
Otsego
Schoharie
Albany
Rensselaer
Columbia
Greene
Catskill Mts.
Hunter Mts.
Adirondack Mts.
Lewis
Jefferson
St. Lawrence
Franklin
Essex
Clinton
Warren
Hamilton
Fulton
Saratoga
Schuyler
Tompkins
Cortland
Onondaga
Madison
Oneida
Herkimer
Montgomery
Schenectady
Rensselaer
Albany
Chautauqua
Cattaraugus
Allegany
Steuben
Chemung
Tioga
Broome
Wyoming
Genesee
Orleans
Monroe
Wayne
Niagara
Erie
Chautauqua
Yates
Ontario
Seneca
Schuyler
Tompkins
Cortland
Onondaga
Oswego
Lewis
Jefferson
St. Lawrence
Franklin
Essex
Clinton
Warren
Hamilton
Fulton
Saratoga
Washington
Rensselaer
Albany
Columbia
Greene
Ulster
Dutchess
Putnam
Westchester
Rockland
Orange
Sullivan
Delaware
Otsego
Schoharie
Montgomery
Schenectady
Herkimer
Oneida
Madison
Broome
Tioga
Chemung
Steuben
Allegany
Cattaraugus
Chautauqua
Erie
Niagara
Orleans
Genesee
Wyoming
Monroe
Wayne
Lake Champlain
Lake George
Hudson R.
Mohawk R.
Erie Canal
Long Island
Nassau
Suffolk
Queens
Kings
Richmond
Hempstead
Oyster Bay
Huntington
Port Jefferson
Riverhead
Greenport
Sag Harbor
Long Beach
Far Rockaway
Rockaway
Coney I.
Fire Is.
Sandy Hook
Jamaica
Flushing
White Plains
New City
Nyack
Peekskill
West Point
Cornwall
Newburgh
Middletown
Monticello
Port Jervis
Goshen
Kingston
Rosendale
Newpaltz
Poughkeepsie
Fishkill
Millerton
Boston Cors.
Chatham
Hudson
Catskill
Delhi
Oneonta
Cooperstown
Cherry Valley
Richfield Spgs.
Morrisville
Oriskany Falls
Utica
Rome
Oneida
Verona
Lakeport
Fulton
Oswego
Sterling
Mexico
Pulaski
Boonville
Lowville
Carthage
Watertown
Sackets Harbor
Cape Vincent
Philadelphia
Alexandria Bay
Clayton
Gouverneur
Edwards
Indian R.
Black R.
Raquette Lake
Indian Lake
North Creek
Wilmurt
Lake Pleasant
Saranac Lakes
Lake Placid
Keeseville
Ausable
Brandon
Dannemora
Saranac R.
Chateaugay
Malone
Massena
Potsdam
St. Regis Falls
Moira
Byrnes
Black L.
Canton
Ogdensburg
Prescott
Brockville
Kingston
Port Hope
Toronto
St. Catherine
Port Colborne
Lockport
Albion
Medina
Rochester
Batavia
Buffalo
Niagara Falls
Lyons
Newark
Palmyra
Syracuse
Auburn
Seneca Falls
Geneva
Canandaigua
Penn Yan
Warsaw
Geneseo
Attica
Dansville
Portage
Wellsville
Olean
Salamanca
Jamestown
Mayville
Chautauqua Lake
Little Valley
Cuba
Belmont
Hornell
Bath
Corning
Elmira
Ithaca
Watkins
Cortland
Prattsburg
Naples
Norwich

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BULLETIN 160 PLATE 10

STAGES IN THE WANING OF THE ICE SHEET IN NEW YORK STATE

H. L. FAIRCHILD

1909

STAGE 2.

The ice border lies along the Susquehanna valley. The indicated limit in the Hudson valley is hypothetical. Highest peaks of the Adirondacks and the highest hills along the ice margin appear above the ice cap. A glacial lake lies in the Genesee valley with outlet to the Allegany-Mississippi.

Scale of Miles

10 5 0 10 20 30

LAURENTIAN ICE SHEET

ONTARIO
LAKE ONTARIO
LAKE ERIE
ATLANTIC OCEAN
VERMONT
MASS.
CONN.
NEW JERSEY
LONG ISLAND SOUND
LONG ISLAND
ST. LAWRENCE RIVER
Toronto
Port Hope
Kingston
Prescott
Brockville
Ogdensburg
Cornwall
Massena
Chateaugay
Malone
Plattsburg
Port Colborne
St. Catherines
Lockport
Albion
Rochester
Buffalo
Batavia
Attica
Warsaw
Genesee
Canandaigua
Geneva
Penn Yan
Dunkirk
Silver Creek
Fredonia
Gowanda
Mayville
Chautauqua Lake
Jamestown
Little Valley
Salamanca
Olean
Belmont
Wellsville
Alfred
Hornell
Addison
Corning
Elmira
Watkins Glen
Ithaca
Auburn
Seneca Falls
Union Springs
Owasco L.
Cayuga L.
Skaneateles L.
Oneida L.
Oneida
Syracuse
Oswego
Fulton
Pulaski
Sackets Harbor
Watertown
Carthage
Lowville
Lake Ontario
Cape Vincent
Philadelphia
Alexandria Bay
Clayton
Gouverneur
Edwards
Harrisville
Black R.
Indian R.
Raquette R.
Potsdam
Canton
Byrites
Black L.
Moira
St. Regis Falls
Brandon
Saranac Lakes
Lake Placid
Keeseville
Ausable
Chazy
Champlain L.
Tupper Lake
Raquette Lake
Indian L.
Long Lake
Blue Mt. L.
Schroon L.
Ticonderoga
Crown Pt.
Port Henry
Elizabethtown
North Creek
Warrensburg
Whitehall
Lake George
Lake Pleasant
Wilmurt
Granville
Glens Falls
Northville
Argyle
Saratoga Springs
Ballston Spa
Johnstown
Gloversville
Dolgeville
Herkimer
Utica
Rome
Trenton Falls
Oriskany Falls
Verona
Lakeport
Canden
Wolcott
Red Creek
Wallington
Fairhaven
Sterling
Fulton
Granby
Oswego
Boonville
Wilmurt
Palmyra
Macedon
Fairport
Pittsford
Honeoye
Canandaigua
Naples
Penn Yan
Dansville
Portage
Mt. Morris
Letchworth Park
Olean
Franklinville
Ellicottville
Randolph
Cattaraugus
Salamanca
Warren
Kinzua
Bradford
Corry
Wattsburg
Erie
Meadville
Titusville
Oil City
Franklin
Tionesta
Kane
Ridgway
Clarion
Brookville
Punxsutawney
Du Bois
Clearfield
Curwensville
Philipsburg
Tyrone
Bellefonte
Lock Haven
Williamsport
Jersey Shore
Montoursville
Muncy
Milton
Sunbury
Northumberland
Selinsgrove
Lewisburg
Mifflinburg
Middleburg
Penns Creek
Selinsgrove
Shamokin
Mount Carmel
Centralia
Ashland
Pottsville
Tamaqua
Hazleton
Lansford
Coaldale
Mauch Chunk
Lehighton
Weissport
Jim Thorpe
Slatington
Bethlehem
Easton
Phillipsburg
Belvidere
Hackettstown
Dover
Boonton
Paterson
Hackensack
Jersey City
Newark
Elizabeth
Rahway
Perth Amboy
Staten Island
Brooklyn
Queens
Nassau
Jamaica
Flushing
Richmond
Coney Is.
Rockaway
Long Beach
Sandy Hook
Raritan Bay
Arthur Kill
Kill van Kull
Newburgh
Middletown
Goshen
Port Jervis
Monticello
Liberty
Wurtsboro
Ellenville
Rosendale
Kingston
Poughkeepsie
Hyde Park
Millerton
Boston Corners
Chatham
Hudson
Catskill
Greene
Catskill Mountains
Hunter Mountain
Delhi
Deposit
Walton
Hancock
Binghamton
Owego
Tioga
Broome
Chemung
Tompkins
Cortland
Cooperstown
Otsego L.
Cobleskill
Schoharie
Middleburg
Schenectady
Troy
Waterford
Cohoes
Watervliet
Albany
Rensselaer
Mechanicville
Saratoga
Fonda
Amsterdam
Montgomery
Schoharie
Otsego
Delaware
Sullivan
Ulster
Orange
Putnam
Dutchess
Columbia
Rensselaer
Albany
Schenectady
Saratoga
Washington
Warren
Essex
Clinton
Franklin
St. Lawrence
Jefferson
Lewis
Oswego
Onondaga
Cayuga
Seneca
Ontario
Yates
Schuyler
Steuben
Allegany
Cattaraugus
Chautauqua
Wyoming
Genesee
Livingston
Monroe
Wayne
Orleans
Niagara
Erie
Greenport
Sag Harbor
Riverhead
Port Jefferson
Huntington
Oyster Bay
Mount Vernon
Yonkers
White Plains
New City
Nyack
Tarrytown
Peekskill
West Point
Cornwall
Highland Falls
Fishkill
Hoosick Falls
Mechanicville
Chatham
Boston Corners
Millerton
Pine Is.
Fire Island
Babylon
Islip
Bridgehampton
Southampton

STAGES IN THE
WANING OF THE ICE SHEET
IN
NEW YORK STATE
H. L. FAIRCHILD
1909

STAGE 3.

Represents the moraine at Portage, and the Valley-Heads moraine in the Finger lake valleys. The Adirondack highlands are partially exposed. Glacial lakes in the Genesee and Cattaraugus valleys have outflow to the Susquehanna and Allegany drainage. The glacial waters in the Adirondack area had no escape except across the neck of ice in the Mohawk valley into Susquehanna flow. Local glacial lakes lay along the border of the Hudsonian lobe, but are not shown here.

Scale of Miles
10 5 0 10 20 30

STAGES IN THE
WANING OF THE ICE SHEET
IN
NEW YORK STATE

H. L. FAIRCHILD

1909

STAGE 4.

The ice front lies across the valleys of the Finger lakes. Many local glacial lakes are held in valleys sloping toward the ice. The Adirondack waters, which are not mapped, find escape across the ice strait in the Mohawk valley into Otsego-Susquehanna drainage. The glacial waters in the Hudson valley are not mapped. In the Erie basin Lake Whittlesey is invading the State, with outlet to the Mississippi. The ice borders about the Adirondacks and in the Hudson valley are generalized.

Scale of Miles

10 5 0 10 20 30

STAGES IN THE
WANING OF THE ICE SHEET
IN
NEW YORK STATE
H. L. FAIRCHILD
1909

STAGE 5.

The ice front lies along the north ends of the Finger lake valleys. Lake Newberry, the expansion of Lake Watkins, replaces all the local lakes in the valleys from Skaneateles to the Genesee. Lake Herkimer lies in the Mohawk and Schoharie valleys, and receives all the Adirondack drainage, having outlet by the Unadilla-Susquehanna; an early phase being shown here. Lake Whittlesey in the Erie basin has acquired its greatest extent.

Scale of Miles
10 5 0 10 20 30

STAGES IN THE
WANING OF THE ICE SHEET
IN
NEW YORK STATE
H. L. FAIRCHILD
1909

STAGE 6.

The ice front has receded somewhat from the position of stage 5. Lake Hall, the successor of Newberry in the central district is tributary to Lake Warren, the successor of Whittlesey in the Erie-Huron basin. Lake Schoharie, the successor of Herkimer in the Mohawk-Schoharie valleys, has outlet along the Helderberg scarp to the Hudson valley, a late phase being depicted here. No drainage across the southern divide. The waters in the Hudson valley are not shown.

Scale of Miles
10 5 0 10 20 30

STAGES IN THE

WANING OF THE ICE SHEET

IN

NEW YORK STATE

H. L. FAIRCHILD

1909

STAGE 7.

The Ontarian Lobe has slightly receded in the Syracuse district while remaining stationary in the Batavia district. Lake Vanuxem, the successor of Hall, drains east to the Mohawk, where Lake Amsterdam, the successor of Schoharie, has outlet by South Schenectady and along the base of the Helderberg scarp to the glacial Lake Albany in the Hudson valley. Two glacial lakes, tributary to the Mohawk waters are Lansing Kill and Sacandaga. Port Leyden lake occupies the Black valley, with outlet into the Lansing Kill lake.

Scale of Miles

10 5 0 10 20 30

STAGES IN THE

WANING OF THE ICE SHEET

IN

NEW YORK STATE

H. L. FAIRCHILD

1909

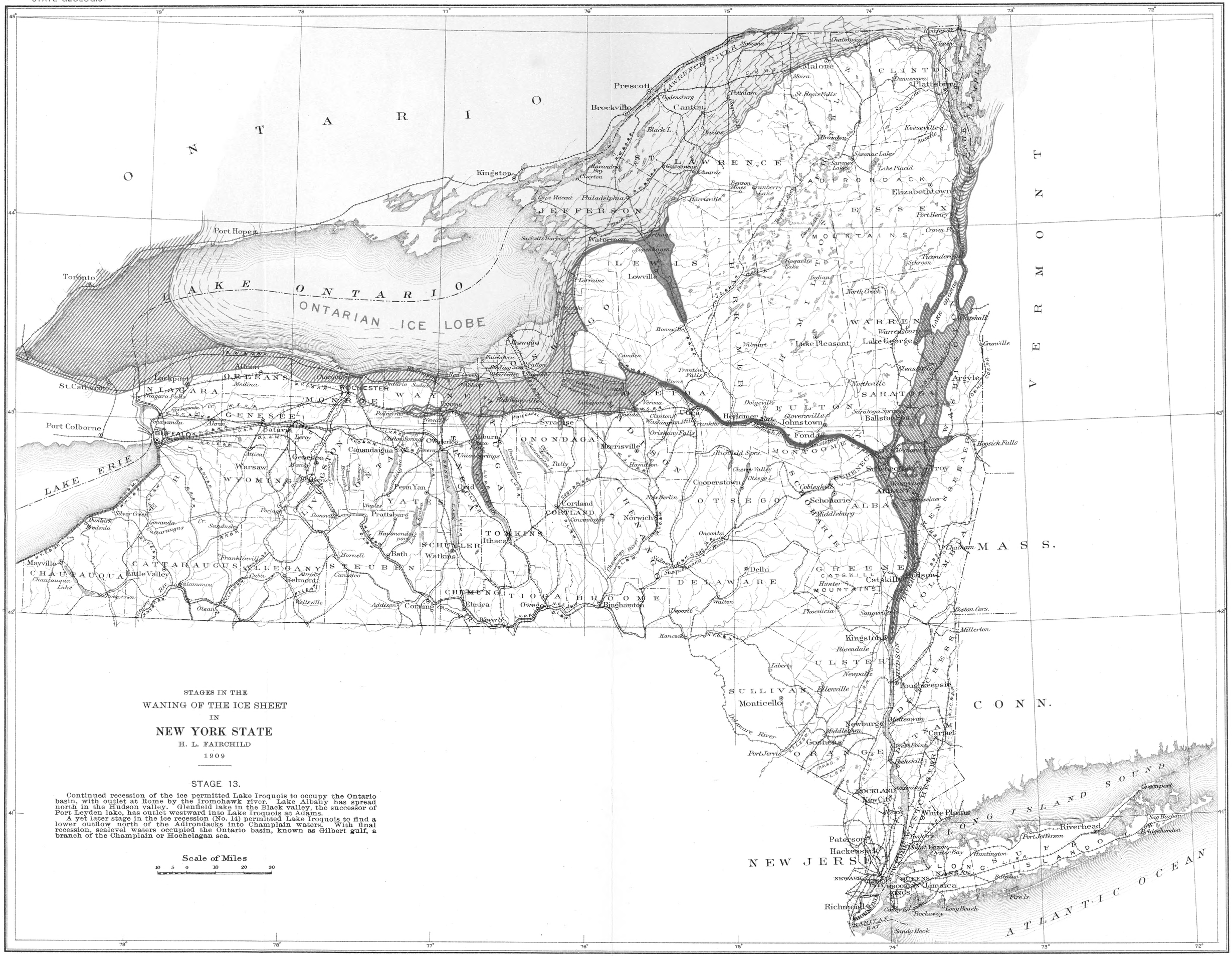
STAGE 8.

Continued recession of the ice front in the central district gives free drainage eastward through the Mohawk valley (Glaciomohawk river) into Lake Albany, building the massive delta which extends from Schenectady to Albany and southward. An incipient phase of Lake Iroquois is here depicted. The limit of the Hudsonian ice lobe is conjectural.

Following this stage the ice readvanced at Syracuse and restored Lake Vanuxem, as stage 9. Other stages have been recognized which are not given in this series of maps but are given in the former series in Bulletin 127. These omitted stages would number here as 9, Second Vanuxem; 10, Lake Warren; 11, Lake Dana; 12, Lake Dawson.

Scale of Miles

10 5 0 10 20 30


ONTARIO
LAKE ONTARIO
ONTARIAN ICE LOBE
LAKE ERIE
ATLANTIC OCEAN
VERMONT
MASS.
CONN.
NEW JERSEY
Toronto
Port Hope
Kingston
Prescott
Brockville
Ogdensburg
Canton
Malone
Plattsburg
Port Colborne
St.Catherines
Lockport
Albion
Batavia
Buffalo
Rochester
Syracuse
Auburn
Utica
Herkimer
Johnstown
Fonda
Schenectady
Troy
Albany
Schoharie
Cooperstown
Oneonta
Delhi
Catskill
Hudson
Kingston
Poughkeepsie
Newburgh
Monticello
Goshen
Port Jervis
Middletown
Elizabethtown
Lake George
Lake Pleasant
Warrensburg
Whitehall
Granville
Argyle
Saratoga Springs
Ballston Spa
Johnstown
Gloversville
Fulton
Oswego
Watertown
Sackets Harbor
Lowville
Lorraine
Boonville
Wilmart
Trenton Falls
Rome
Oriskany Falls
Richfield Springs
Cherry Valley
Otsego L.
Cobleskill
Middleburg
New Berlin
Norwich
Cortland
Ithaca
Watkins
Elmira
Corning
Binghamton
Owego
Bath
Hornell
Prattsburg
Penn Yan
Geneva
Canandaigua
Batavia
Le Roy
Warsaw
Genesee
Mayville
Chautauqua Lake
Little Valley
Salamanca
Olean
Belmont
Wellsville
Addison
Waverly
Deposit
Walton
Hancock
Phoenicia
Sangerfield
Boston Cors.
Millerton
Rosendale
Liberty
Newpaltz
Ellenville
Wappingers Falls
Peekskill
West Point
Cornwall
Nyack
White Plains
New City
Haverstraw
Port Jefferson
Riverhead
Greenport
Sag Harbor
Bridgehampton
Huntington
Oyster Bay
Mount Vernon
Yonkers
Jamaica
Brooklyn
Queens
Kings
Richmond
Staten Island
Long Island
Rockaway
Long Beach
Coney Isl.
Fire Is.
Sandy Hook
Raritan Bay
Hoosick Falls
Troy
Lake Champlain
Lake George
Lake Placid
Saranac Lake
Keeseville
Ausable
Brandon
Malone
Moira
Chateaugay
Potsdam
Canton
Brockville
Prescott
Ogdensburg
St. Regis Falls
Tupper Lake
Long Lake
Indian L.
North Creek
Schroon L.
Ticonderoga
Crown Pt.
Port Henry
Elizabethtown
Harrisville
Philadelphia
Cape Vincent
Alexandria Bay
Clayton
Black L.
Pyrites
Edwards
Gouverneur
Massena
Chateaugay
Dannemora
Plattsburg
Saranac Lake
Lake Placid
Sarmac Lakes
Benson Mines
Cranberry Lake
Raquette Lake
Indian L.
Wilmart
Camden
Fairhaven
Sterling Station
Martville
Fulton
Red Creek
Wolcott
Sodus
Ontario
Williamson
Newark
Lyons
Palmyra
Newark
Clinton
Washington Mills
Frankfort
Ilion
Herkimer
Dolgeville
Little Falls
Canajoharie
Amsterdam
Fonda
Johnstown
Gloversville
Saratoga Springs
Ballston Spa
Mechanicville
Schenectady
Troy
Albany
Rensselaer
Hudson
Catskill
Coxsackie
Athens
Chatham
Middleburg
Schoharie
Cobleskill
Otsego L.
Cherry Valley
Richfield Springs
Oriskany Falls
Utica